

Rabbit MCL1 Polyclonal Antibody | anti-MCL1 antibody

MCL1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31079	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

MCL1; Polyclonal Antibody; MCL1 Antibody; Bcl 2 related protein EAT/mcl1; Bcl-2-like protein 3; Bcl-2-related protein EAT/mcl1; BCL2 related; Bcl2-L-3; BCL2L3; EAT; Induced myeloid leukemia cell differentiation protein Mcl 1; Induced myeloid leukemia cell differentiation protein Mcl-1; MCL 1; MCL1-ES; mcl1/EAT; MCL1_HUMAN; MCL1L; MCL1S; MGC104264; MGC1839; Myeloid Cell Leukemia 1; Myeloid cell leukemia ES; Myeloid cell leukemia sequence 1; Myeloid cell leukemia sequence 1 BCL2 related; Myeloid cell leukemia sequence 1 isoform 1; OTTHUMP00000032794; OTTHUMP00000032795; TM; anti-MCL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MCL1 antibody detects endogenous levels of total MCL1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	197
Applicable Applications for anti-MCL1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:100-1:500
Immunogen	A synthesized peptide derived from human MCL1
Subcellular Location	Membrane. Cytoplasm. Mitochondrion. Nucleus > Nucleoplasm. Cytoplasmic, associated with mitochondria.
Tissue Specificity	Expression increases early during phorbol ester-induced differentiation along the monocyte/macrophage pathway in myeloid leukemia cell line ML-1. Rapidly up-regulated by CSF2 in ML-1 cells. Up-regulated by heat shock-induced differentiation. Expression increases early during retinoic acid-induced differentiation.
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (88%), Horse (100%), Rabbit (94%), Dog (100%), Chicken (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA31079 at 1/200 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



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IF (Immunofluorescence)
AAA31079 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)
AAA31079 at 1/50 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA31079 staining LOVO cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MCL1 antibody	Description: Involved in the regulation of apoptosis versus cell survival, and in the maintenance of viability but not of proliferation. Mediates its effects by interactions with a number of other regulators of apoptosis. Isoform 1 inhibits apoptosis. Isoform 2 promotes apoptosis. Subunit Structure: Interacts with HIF3A (via C-terminus domain) (By similarity). Interacts with BAD, BOK, BIK and BMF (By similarity). Interacts with PMAIP1 (PubMed:17389404). Interacts with BBC3 (By similarity). Isoform 1 interacts with BAX, BAK1 and TPT1 (PubMed:10837489, PubMed:12149273, PubMed:15077116). Heterodimer of isoform 1 and isoform 2. Homodimers of isoform 1 or isoform 2 are not detected. Isoform 2 does not interact with pro-apoptotic BCL2-related proteins (PubMed:10837489). Interacts with RTL10/BOP (PubMed:23055042). Interacts with BCL2L11; may sequester BCL2L11 to prevent its pro-apoptotic activity (PubMed:10837489, PubMed:27013495, PubMed:17389404, PubMed:20562877). Post-translational Modifications: Cleaved by CASP3 during apoptosis. In intact cells cleavage occurs preferentially after Asp-127, yielding a pro-apoptotic 28 kDa C-terminal fragment. Rapidly degraded in the absence of phosphorylation on Thr-163 in the PEST region. Phosphorylated on Ser-159, by GSK3, in response to IL3/interleukin-3 withdrawal. Phosphorylation at Ser-159 induces ubiquitination and proteasomal degradation, abrogating the anti-apoptotic activity. Treatment with taxol or okadaic acid induces phosphorylation on additional sites. Ubiquitinated. Ubiquitination is induced by phosphorylation at Ser-159. Similarity: Belongs to the Bcl-2 family.
References	Li QR, Zhao H, Zhang XS, Lang H, Yu K; Journal: Acta Pharmacol Sin. Novel-smoothened inhibitors for therapeutic targeting of naïve and drug-resistant hedgehog pathway-driven cancers. Qian J, Chen Y, Meng T, Ma L, Meng L, Wang X, Yu T, Zask A, Shen J, Yu K; Journal: Oncotarget. Molecular regulation of apoptotic machinery and lipid metabolism by mTORC1/mTORC2 dual inhibitors in preclinical models of HER2+/PIK3CAmut breast cancer.

NCBI AND UNIPROT INFORMATION

NCBI GI #	309747067
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NCBI GeneID	4170
NCBI Accession #	NP_001184249.1
NCBI GenBank Nucleotide #	NM_001197320.1
UniProt Accession #	Q07820; Q9HD91; Q9NRQ3; Q9NRQ4; Q9UHR7; Q9UHR8; Q9UHR9; Q9UNJ1; B2R6B2; D3DV03; D3DV04
Molecular Weight	Observed: 37 kDa Predicted: 38 kDa
NCBI Official Full Name	induced myeloid leukemia cell differentiation protein Mcl-1 isoform 3
NCBI Official Synonym Full Names	MCL1, BCL2 family apoptosis regulator
NCBI Official Symbol	MCL1
NCBI Official Synonym Symbols	TM; EAT; MCL1L; MCL1S; Mcl-1; BCL2L3; MCL1-ES; bcl2-L-3; mcl1/EAT
NCBI Protein Information	induced myeloid leukemia cell differentiation protein Mcl-1
UniProt Protein Name	Induced myeloid leukemia cell differentiation protein Mcl-1
UniProt Gene Name	MCL1
UniProt Synonym Gene Names	BCL2L3; Bcl2-L-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mcl1-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/31079>